Section I (Amendments to the Claims)

Please amend claim 1 as set out in the following listing of the claims of the application. Please cancel claims 11 and 12, without prejudice.

- 1. (Currently amended) A protein chip of a S-L-SP form comprising a solid substrate (S) and a substrate peptide (SP) immobilized on the solid substrate (S) by a linker protein (L) of leptin or malic enzyme, wherein the substrate peptide is fused with the linker protein-in the form of-a peptide monomer, a dimer of monomer-proline-monomer[[,]] or a multimer where in which the monomers are linked to each other by a proline and wherein the substrate peptide is fused with the linker protein.
- 2. (Cancelled)
- 3. (Cancelled)
- (Previously presented) The protein chip according to claim 1, wherein the peptide monomer comprises kemptide (SEQ ID NO: 1) or Ab1 (SEQ ID NO: 8).
- (Previously presented) The protein chip according to claim 1, wherein the solid substrate comprises a slide with exposed aldehyde.
- 6. (Previously presented) A method for analyzing the interaction between a reactive protein and its substrate peptide using the protein chip of claim 1, comprising the steps of:
- (a) adding a reactive protein to the protein chip, the reactive protein showing a specific interaction with the substrate peptide immobilized on the protein chip; and
 - (b) detecting the interaction between the reactive protein and the substrate peptide.
- (Previously presented). The method according to claim 6, wherein the reactive protein comprises an enzyme or an antibody.
- (Withdrawn) The method according to claim 7, wherein the enzyme comprises protein kinase A or Ab1 kinase.
- (Original) The method according to claim 6, wherein the step of detecting the interaction between the substrate peptide and the reactive protein is carried out by using a fluorescence labeled antibody.

10. (Withdrawn) The method according to claim 8, wherein the step of detecting a phosphorylation of the substrate peptide by kinase is carried out by using a Cy3-labeled anti-phosphorylation serine antibody or a Cy5-labeled anti-phosphorylation tyrosine antibody.

- 11. (Cancelled)
- 12. (Cancelled)